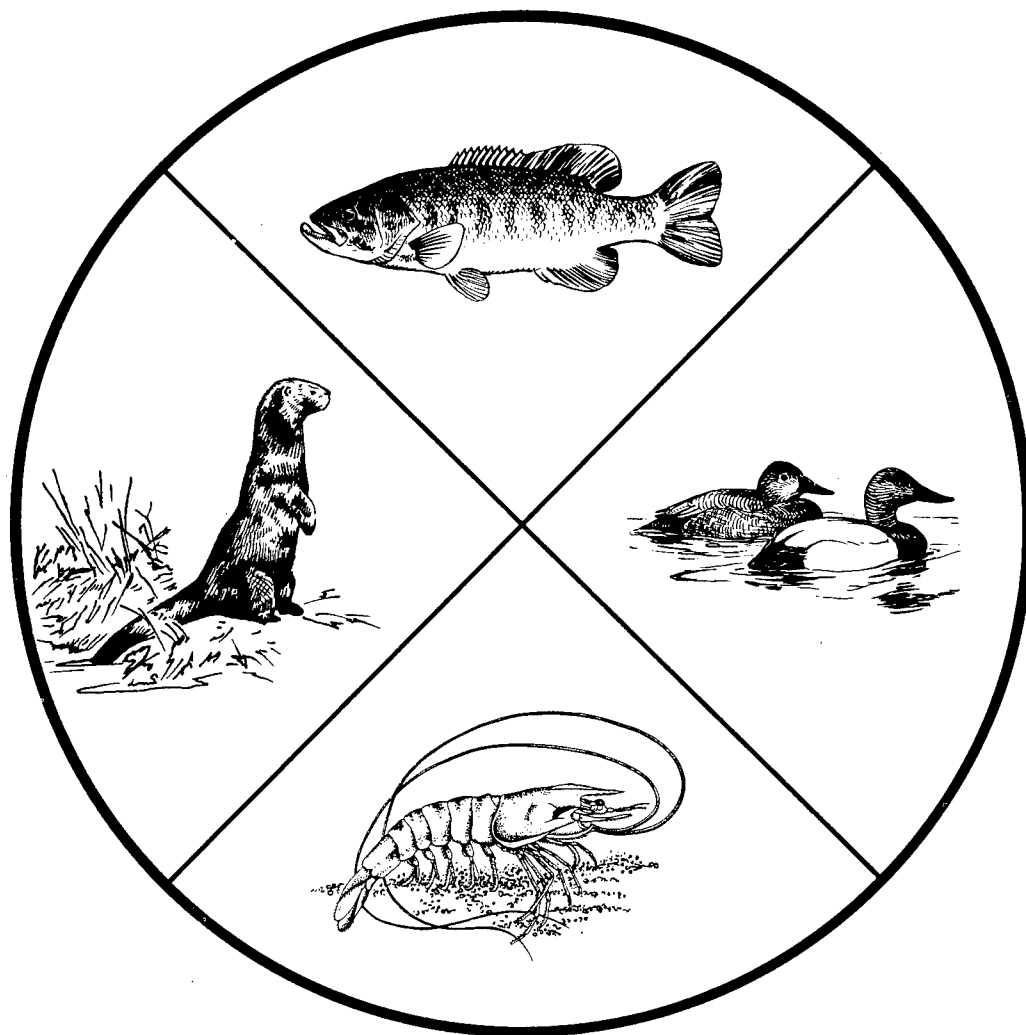


INDEX TO COMMON AND SCIENTIFIC NAMES OF SPECIES LISTED IN CONTAMINANT HAZARD REVIEWS 1 THROUGH 15



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Biological Report 85(1.16)
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Contaminant Hazard Reviews
Report No. 16

INDEX TO COMMON AND SCIENTIFIC NAMES
OF SPECIES LISTED IN CONTAMINANT
HAZARD REVIEWS 1 THROUGH 15

by

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and

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U.S. Department of the Interior

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SUMMARY

The Contaminant Hazard Review series emphasizes ecotoxicological aspects of selected chemical pollutants to fishery and wildlife resources, and includes reports on various agricultural pesticides (mirex, carbofuran, toxaphene, diazinon, chlorpyrifos), metals and metalloids (arsenic, cadmium, chromium, mercury, lead, selenium, tin), and organic industrial wastes (polycyclic aromatic hydrocarbons, dioxins, polychlorinated biphenyls). The present account is a cumulative index to the common and scientific names of all biological species listed in the first 15 reports in the Contaminant Hazard Review series, published as U.S. Fish and Wildlife Service Biological Reports 85(1.1) through 85(1.15), inclusive. Individual species were cross-referenced by contaminant and corresponding page numbers.

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INTRODUCTION

A total of 15 Contaminant Hazard Reviews have been published since 1985 (Eisler 1985a,b,c,d; 1986a,b,c,d; 1987a,b; 1988a,b; 1989; Eisler and Jacknow 1985; Odenkirchen and Eisler 1988). These reviews briefly summarized ecological and toxicological aspects of various chemical pollutants, with particular emphasis on fishery and wildlife resources. Specifically, reviews were prepared on selected agricultural pesticides (mirex, carbofuran, diazinon, toxaphene, chlorpyrifos), metalloids (arsenic, selenium), metals (cadmium, lead, chromium, mercury, tin), and organic industrial wastes (polychlorinated biphenyls, dioxins, polycyclic aromatic hydrocarbons).

We present herein an index to the common and scientific names of all species listed in Contaminant Hazard Reviews 1 to 15. This report was prepared in response to a request from environmental specialists of the U.S. Fish and Wildlife Service. Taxonomic nomenclatures for plants, invertebrates, and vertebrates are under constant revision. Accordingly, we elected to conform as much as possible to the systems and spellings used by Swain and Swain (1948) for insects, Edwards (1974) for birds, American Fisheries Society (1980) for fishes, Johnson and Finley (1980) and Jenkins (1980) for invertebrates, Jenkins (1980) and Scott and Wasser (1980) for plants, and Nowak and Paradiso (1983) for mammals.

In this report, individual species are arranged alphabetically in the Index by scientific and common name. The scientific name is followed by an underlined number that refers to one of the Contaminant Hazard Reviews in the following list, and to the page numbers within the report.

- 1 = Mirex (Eisler 1985a)
- 2 = Cadmium (Eisler 1985b)
- 3 = Carbofuran (Eisler 1985c)
- 4 = Toxaphene (Eisler and Jacknow 1985)
- 5 = Selenium (Eisler 1985d)
- 6 = Chromium (Eisler 1986a)
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- 10 = Mercury (Eisler 1987a)
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- 12 = Arsenic (Eisler 1988a)
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Coturnix risoria: 13 15.

Cow, Bos bovis

Cowbird, brown-headed, Molothrus ater

Cowpea, Vigna sp.

Coyote, Canis latrans

Crab

Alaskan king, Paralithodes camtschatica

Alaskan snow, Chionocetes bairdii

Blue, Callinectes sapidus

Drift-line, Sesarma cinereum
 Dungeness, Cancer magister
 Fiddler, Uca pugilator
 Hermit, Pagurus longicarpus
 Mud, Rithropanopeus harrissii
 Rock, Cancer irroratus
 Stone, Menippe mercenaria
 Various, Carcinus, Neptunus, Podophthalmus
 Crabs: 3 8; 5 27; 6 5, 35; 7 28; 12 29, 81; 15 11, 35.
 Crane
 Lesser sandhill, Grus canadensis canadensis
 Sandhill, Grus canadensis
 Crangon crangon: 2 16; 12 29; 14 66, 67; 15 44.
 Crappie, white, Pomoxis annularis
 Crassostrea commercialis: 2 4.
 Crassostrea gigas: 2 4; 5 33; 6 33; 10 13; 12 50; 15 27, 29, 34, 41.
 Crassostrea spp. 12 27; 14 71.
 Crassostrea virginica: 2 27, 28; 4 10, 14-16; 5 11; 6 24, 33; 7 44, 45; 10,
 47; 11 27, 32, 36, 40, 42, 48; 12 27, 51, 54; 14 65; 15 11, 29, 44.
 Crataegus spp.: 14 28.
 Crawfish, Cambarus sp.
 Crayfish, Astacus, Orconectes, Pacifastacus, Procambarus
 Crayfishes: 3 1; 10 43, 64; 11 33.
 Crepidula fornicata: 10 48, 58, 59.
 Cricetus spp.: 2 31; 3 25; 6 27, 39; 8 24-26; 9 25; 11 1, 55; 12 10, 12,
 35, 37-39, 64; 13 12; 15 56.
 Cricket, Gryllidae
 Cristigera sp.: 14 67.
 Croaker, Atlantic, Micropogonias undulatus
 Crocodile, American, Crocodylus acutus
 Crocodylus acutus: 1 24; 10 30; 12 32.
 Crocothemis erythraea: 13 7.
 Crow, American, Corvus brachyrhynchos
 Ctenocephalides spp.: 13 6.
 Culex pipiens quinquefasciatus: 11 42.
 Culex spp.: 3 22; 5 31; 7 45, 47; 13 17, 24.
 Cunninghamella elegans: 11 34.
 Cutworm, Lepidoptera
 Cygnus buccinator: 14 2, 51.
 Cygnus columbianus: 14 51.
 Cygnus olor: 14 2, 37, 51.
 Cynodon dactylon: 12 40.
 Cynoscion nebulosus: 4 6.
 Cyprinodon variegatus: 3 8, 10, 11, 21; 4 10, 11, 16; 5 34; 7 39, 48, 50, 51,
 57; 9 11, 19, 21, 22; 11 38; 13 9, 10; 15 6, 42, 43, 48.
 Cyprinus carpio: 4 9; 5 17, 32, 35-37; 7 14, 33; 8 8, 9, 12; 12 24; 14 33; 15
 39.

Dab, Limanda limanda
Damselflies, Odonata
Daphnia galeata mendotae: 2 21.
Daphnia longispina: 15 46, 47.
Daphnia magna: 2 17, 21, 27; 4 9, 11, 14, 15; 5 31; 6 20, 23, 26, 30; 7 37, 44, 45, 51; 8 19; 9 10, 19; 10 46, 49; 11 40-42; 12 45; 13 6, 7; 14 12, 13, 58, 59, 71; 15 35, 38, 44, 47.
Daphnia pulex: 2 21; 4 9; 5 31; 9 10; 11 40-44; 12 46.
Daphnia sp.: 1 4, 8, 12; 3 22; 4 7; 5 36; 6 25; 14 72.
Daphnids, 11 45, 48; 14 57.
Daucus sp.: 9 5; 14 56.
Deer
 Mule, Odocoileus hemionus
 Roe, Capreolus capreolus
 Various, Cervidae
 White-tailed, Odocoileus virginianus
Dendrocygna bicolor: 3 11, 12; 4 12; 10 51.
Dianthus sp.: 5 5.
Dicranum scoparium: 10 21.
Digitaria sanguinalis: 12 6.
Diomedea immutabilis: 14 3.
Diplopoda, Millipedes
Diplodus sargus: 10 26.
Diploria strigosa: 7 47.
Dog, Canis familiaris, Canis sp.
Dogfish
 Smooth, Mustelus canis
 Spiny, Squalus acanthias
Dolphin, striped, Stenella coeruleoalba
Donax venustus: 10 24.
Dorosoma cepedianum: 4 6, 7.
Dorosoma petenense: 4 7; 5 18.
Dove
 Mourning, Zenaida macroura
 Ringed turtle-, Streptopelia risoria
 Ring-necked, Streptopelia capicola
 Rock, Columba livia
Drosophila melanogaster: 10 68.
Drum, freshwater, Aplodinotus grunniens
Duck
 American black, Anas rubripes
 American wood, Aix sponsa
 Fulvous whistling, Dendrocygna bicolor
 Tufted, Aythya fuligula
 Mottled, Anas fulvigula
 Various, Anas spp.
Duckweed, Lemna media, Lemna minor
Dugesia dorotocephala: 10 49, 58.

Dunaliella marina: 12 55.
Dunaliella tertiolecta: 14 65.

Eagle

Bald, Haliaeetus leucocephalus
White-tailed sea-, Haliaeetus albicilla

Earthworm

Australian, Lumbricus sp.

Various, Allolabophora, Eisenia, Eisenoides, Lumbricus, Octochaetus

Earthworms: 3 1, 8, 17, 18; 5 6, 22, 27, 38; 6 5, 14, 25; 8 12; 12 44; 14 22, 29, 48, 57.

Echinodermata: 6 36; 10 59; 15 37.

Echinus esculentus: 2 7.

Ecklonia radiata: 12 35.

Eel, American, Anguilla rostrata

Eels, Anguilla

Egret, cattle, Bubulcus ibis

Eichornia crassipes: 10 21.

Eider, common, Somateria mollissima

Eisenia foetida: 3 18; 6 14; 10 57, 68.

Eisenia rosea: 14 29.

Eisenoides carolinensis: 14 29.

Egregia laevigata: 14 71.

Elasmopus pecteniscus: 11 38.

Elk, Cervus canadensis (= elaphus), Cervus sp.

Elm, Ulmus americana

Elodea canadensis: 3 22; 14 70.

Elodea sp.: 3 21; 8 19.

Engraulidae: 14 34.

Enhydra lutris: 2 10.

Enteromorpha linza: 14 25.

Enteromorpha sp.: 15 28.

Entosiphon sulcatum: 14 59.

Eopsetta grigorjewi: 12 30.

Ephemarella sp.: 2 17, 28.

Eptesicus fuscus: 7 23, 34; 14 44.

Equus caballus: 1 33; 5 1, 26, 28, 29, 44; 8 1, 26; 12 65; 14 iii, 3, 44, 48, 53, 55, 87, 90, 91, 99, 104.

Eremophila alpestris: 4 12; 9 29; 13 17, 22, 23.

Erethizon dorsatum: 2 13.

Erithacus rubecula: 7 53.

Erolia (= Calidris) spp.: 3 1, 27.

Escherichia coli: 8 17.

Esox lucius: 5 32; 6 26; 8 20, 28; 10 26, 40, 61; 11 42, 46; 12 24; 14 64.

Esox niger: 8 16.

Estigmene acrea: 3 22, 23.

Eucyclops agillii: 2 21.

Euphausiid, Meganyctiphanes norvegica

Eurytemora affinis: 11 38, 39; 12 51; 15 41.
Eutamias townsendii: 14 44.

Falco columbarius: 1 32.
Falco mexicanus: 14 78, 79.
Falco peregrinus: 1 32; 7 52; 10 33; 14 38.
Falco rusticolus: 10 33, 41.
Falco sp.: 10 41.
Falco sparverius: 1 9, 16; 7 50; 14 13, 79, 80, 103.
Falco tinnunculus: 7 17; 10 54.
Falcon

Peregrine, Falco peregrinus
Prairie, Falco mexicanus
Swedish gyr, Falco rusticolus
Felis domesticus: 3 13; 4 8; 6 27; 8 1; 10 12, 15, 36, 54, 55, 64, 65, 68, 74; 12 65; 14 91, 99; 15 61.
Fern, ostrich, Matteuccia struthiopteris
Ferret, European, Mustela putorius furo
Fescue, Festuca arundinacea
Festuca arundinacea: 6 13.
Festuca rubra: 14 25.
Finch, house, Carpodacus mexicanus
Fish, harlequin, Rasbora heteromorpha
Flagfish, Jordanella floridae
Flatworm, see Dugesia dorotocephala
Flavobacterium: 5 4.
Fleas, Ctenocephalides spp., Siphonaptera
Flounder
Baltic or European, Platichthys flesus
Roundnose, Eopsetta grigorjewi
Summer, Paralichthys dentatus
Windowpane, Scophthalmus aquosus
Winter, Pseudopleuronectes americanus
Witch, Glyptocephalus cynoglossus
Yellowtail, Limanda limanda

Fly

Crane, Tipula sp.
Damsel, Ischnura
Dragon, Crocothemis, Macromia, Pseudagrion
Fruit, Drosophila melanogaster
Horn, Haematobia irritans, Muscidae
House, Musca domestica, Musca sp.
May, Hexagenia, Siphonurus
Snipe, Atherix sp.
Stone, Claassenia, Isoperla, Pteronarcella, Pteronarcys
Formicidae: 1 20; 5 6, 38.
Fox, red, Vulpes vulpes
Fragaria vesca: 3 4.

Fratercula spp.: 2 15
Frog
 Bull, Rana catesbeiana
 Cricket, Acris sp.
 European, Rana temporaria
 Green, Rana clamitans
 Leopard, Rana sphenoccephala
 Tree, Hyla sp.
 Various, Rana, Xenopus
Frogs: 3 1, 22; 13 22.
Fruitworm, Lepidoptera
Fucus distichus: 14 26.
Fucus spp.: 11 32; 12 26.
Fucus vesiculosus: 2 4; 6 9; 12 26, 53; 14 26.
Fulica americana: 5 20, 38.
Fundulus heteroclitus: 2 28, 30, 31; 5 27; 6 23; 10 61; 13 19; 14 68; 15 45.
Fundulus kansae: 5 36.
Fundulus similis: 4 16; 11 40; 13 8.
Fungi: 5 20; 12 9; 14 24, 57; 15 10, 15.
Fungus, Cortinarius spp., Cunninghamella elegans

Gadopsis marmoratus: 10 27.
Gadus morhua: 2 8; 7 8, 12, 47; 12 31; 15 31.
Gadwall, Anas strepera
Galleria melonella: 3 17.
Gallinule, purple, Porphyryula martinica
Gallus sp.: 1 5, 9, 15, 19; 2 iii, 24, 31; 3 11, 23, 24; 4 17; 5 1, 29, 38; 6 18, 19, 27, 37; 7 36, 50, 53, 60; 8 1, 23, 28; 9, iv, 1, 6, 9, 14, 19, 23; 10 1, 51, 53, 61, 62, 74; 12 4, 6, 56, 58, 59, 61, 76, 77; 13 10, 12, 15; 14 13, 14, 80, 81, 86; 15 8, 32, 50, 51.
Gambusia affinis: 1 12; 2 28; 3 9; 5 18, 32, 36, 37; 8 21; 11 38, 42, 46; 13 9, 18; 14 34.
Gammarus duebeni: 10 49.
Gammarus fasciatus: 9 10.
Gammarus lacustris: 13 6, 7.
Gammarus oceanicus: 15 43.
Gammarus pseudolimnaeus: 7 37, 45; 10 46, 61; 11 37; 12 46, 53; 14 59.
Gammarus spp.: 1 4, 8; 4 9, 11; 6 20; 51.
Gar, spotted, Lepisosteus oculatus
Gasterosteus aculeatus: 2 17; 4 10; 14 64.
Gastrophryne carolinensis: 10 47; 12 44, 47, 81.
Gastropods: 3 24; 4 7; 5 27, 36; 6 12; 12 53, 81; 14 31.
Gavia arctica: 7 22.
Gavia immer: 5 19; 10 63; 14 38.
Gazelle, Antilopinae
Gerbil, Gerbillus sp., Meriones unguiculatus
Gerbillus sp.: 15 56.
Girella punctata: 10 14.

Glebula rotundata: 3 22, 23.
Globicephala macrorhynchus: 2 10; 5 15.
Glycine max: 2 12; 4 19; 12 39, 40, 43; 14 48, 56.
Glyptocephalus cynoglossus: 12 66.
Glyptotendipes barbipes: 7 47.
Goat, domestic, Capra hircus, Capra sp.
Goatfish, Mullus, Upeneus
Goby, edible, Boleophthalmus dussumieri
Goldenrod, Solidago graminifolia
Goldfish, Carassius auratus
Goose
 Canada, Branta canadensis
 Greylag, Anser anser
 Various, Anser spp.
Goosefish, Lophius piscatorius
Gopher, pocket, Thomomys sp.
Goshawk, Accipiter gentilis
Gossypium hirsutum: 3 19, 23; 4 iii, 1, 3, 4, 19; 12 6, 14, 39.
Grackle
 Common, Quiscalus quiscula
 Great-tailed, Quiscalus mexicanus
Grape, Vitis sp.
Grass
 Bahia, Paspalum notatum
 Blue, Poa annua
 Brome, Bromus inermis, Bromus spp.
 Buffalo, Bouteloua dactyloides
 Colonial bent-, Agrostis tenuis
 Common Bermuda, Cynodon dactylon
 Crab, Digitaria sanguinalis
 Marsh, Spartina sp.
 Johnson, Sorghum halepense
 Red fescue, Festuca rubra
 Saltmarsh, Spartina alterniflora
 Western wheat, Agropyron smithii
Grasshopper, western, Melanoplus spp.
Grasshoppers: 4 7, 19; 9 iv, 29.
Grebe
 Eared, Podiceps nigricollis
 Great crested, Podiceps cristata
 Pied-billed, Podilymbus podiceps
Grebes, Podicipediformes
Grindelia spp.: 5 6.
Grindelia squarrosa: 5 21.
Groundnut, Arachis hypogea
Grouse
 Ruffed, Bonasa umbellus
 Sharp-tailed, Tympanuchus phasianellus

Grunion, California, Leuresthes tenuis
Grus canadensis: 13 13; 14 2.
Grus canadensis canadensis: 4 12.
 Gryllidae: 1 21; 6 42.
 Gudgeon, topmouth, Pseudorasbora parva
 Gull
 California, Larus californicus
 Franklin's, Larus pipixcan
 Great black-backed, Larus marinus
 Herring, Larus argentatus
 Laughing, Larus atricilla
 Lesser black-backed, Larus fuscus
 Ring-billed, Larus delawarensis
 Gumweed, Grindelia spp., Grindelia squarrosa
 Guppy, Poecilia reticulata
Gutierrezia spp.: 5 6, 21.
Gymnogyps californianus: 14 3.

 Haddock, Melanogrammus aeglefinus
Haematobia irritans: 13 16.
Haematopus ostralegus: 5 14.
 Hagfish, Atlantic, Myxine glutinosa
 Hake
 Blue, Antimora rostrata
 Red, Urophycus chuss
Haliaeetus albicilla: 10 63.
Haliaeetus leucocephalus: 1 31; 7 17, 32, 52; 10 33, 41, 74; 14 2, 38, 51,
 74, 81, 103.
Haliaeetus sp.: 10 41.
 Halibut, Atlantic, Hippoglossus hippoglossus
Halichoeres grypus: 10 43.
Haliotis rufescens: 2 5; 6 9; 14 71.
 Hamster
 Chinese, Cricetus spp.
 Golden, Cricetus spp.
Haplopappus spp.: 5 21.
 Hardy head, small-mouthed, Atherinasoma microstoma
 Hare, Lepus europaeus
 Hawk
 Cooper's, Accipiter cooperii
 Pigeon (= Merlin), Falco columbarius
 Red-shouldered, Buteo lineatus
 Red-tailed, Buteo jamaicensis
 Hawthorn, Crataegus spp.
 Heather, Scotch, Calluna vulgaris
Helianthus spp.: 4 iv, 21.
Helisoma campanulata: 12 46.
Helisoma sp.: 8 19.

Helisoma trivolvis: 13 7.

Helix aspersa: 3 23.

Helix spp.: 14 57.

Hemicentrotus sp.: 6 37.

Hemichromus bimaculatus: 15 46.

Hemifusus spp.: 12 27, 81.

Hen, guinea, Gallus sp.

Hermione hystrix: 6 35, 36.

Heron

Black-crowned night-, Nycticorax nycticorax

Gray, Ardea cinerea

Great blue, Ardea herodias

Green-backer (= Green, Striated), Butorides striatus

Little green, Butorides virescens (= striatus)

Yellow-crowned night-, Nycticorax violaceus

Herring, Pacific, Clupea harengus pallasii

Hexagenia bilineata: 11 38.

Hexagenia sp.: 5 16; 9 19; 11 41.

Himantopus mexicanus: 5 20.

Hinnites multirugosus: 10 20.

Hippoglossus hippoglossus: 15 31.

Hirundo rustica: 14 38, 39, 52.

Hog, Sus spp.

Hogchoker, Trinectes maculatus

Holothurian, sea cucumber, Stichopus

Homarus americanus: 2 7, 29; 10 24; 11 27, 31, 32; 12 29, 35; 14 67; 15 29, 44.

Homo sapiens: 1 iii, 1, 18, 27, 30, 33; 2 1, 16, 26, 27, 31-34; 3 iii, 3, 15, 16, 25, 27; 4 iii, iv, 4, 13, 14, 18, 20, 21; 5 iv, 1, 2, 5-7, 26, 27, 40-44; 6 iii, I, 14, 18, 27, 38, 41, 46; 7 iii, I, 5, 33, 54, 55, 57-59, 61; 8 iii, 1-3, 16, 24, 28; 9 iii, 1, 18; 10 iii, 1, 2, 4, 10-12, 17, 40, 44, 54, 56, 62-65, 67-69, 72, 74; 11 iv, 1, 2, 9, 10, 12, 25, 40, 50, 51, 58-60, 62, 63; 12 iii, iv, 1-5, 12, 14, 20, 35, 37, 38, 61, 65, 72-74, 77, 81; 13 1, 24; 14 iii, 1, 2, 5, 7, 11-14, 86, 104-108 108; 15 1-4, 12, 34, 56, 63, 65, 66, 68, 69.

Honeybee, Apis mellifera, Apis spp.

Hordeum vulgare: 12 39.

Hormomya mutabilis: 10 13.

Hornworm, tobacco, Manduca sexta

Horse, Equus caballus

Hyacinth, water, Eichornia crassipes

Hyalella azteca: 5 31; 11 45.

Hydra, Hydra oligactis, Hydra sp.

Hydra oligactis: 7 37.

Hydra sp.: 1 8.

Hydrodictyon reticulatum: 6 30.

Hydroid, Campanularia

Hyla sp.: 10 47.

Hymenomonas carterae: 12 54.
Hypnum cupressiforme: 11 25, 26; 14 24.
Hypogymnia physodes: 10 21.

Ibis, white-faced, Plegadis chihi

Ictalurus furcatus: 4 6, 7.

Ictalurus melas: 4 9.

Ictalurus nebulosus: 7 12; 8 10, 11, 16; 11 23, 31, 47, 49.

Ictalurus punctatus: 1 7, 8; 2 20; 3 9; 4 4, 6, 9, 11, 14, 15, 16; 5 18, 32, 35; 6 26; 7 38; 8 9, 11, 12, 22; 10 28, 46; 12 25, 47; 13 9; 14 63; 15 45.

Ictalurus spp.: 8 16.

Indoplanorbis exustus: 9 20.

Ipomoea batatas: 9 1.

Ischnura sp.: 2 28.

Ischnura verticalis: 7 37.

Isoperla sp.: 10 23.

Isopod, Asellus sp.

Isurus oxyrinchus: 12 31.

Jackdaw, Corvus monedula

Jewelfish, Hemichromis bimaculatus

Jordanella floridae: 5 32; 9 10, 22; 12 47, 55.

Kale, Brassica oleracea acephala

Kelletia kelletia: 10 20.

Kelp

Brown, Ecklonia radiata

Giant, Macrococystis pyrifera

Kestrel, Falco tinnunculus

Kestrel, American, Falco sparverius

Killifish

Diamond, Adinia xenica

Freshwater, Fundulus kansae

Longnose, Fundulus similis

Kingfisher, belted, Ceryle alcyon

Kittiwake, black-legged, Rissa tridactyla

Klebsiella pneumoniae: 12 73.

Knifejaw, striped, Oplegnathus fasciatus

Knot, red, Calidris canutus

Knotted wrack, Ascophyllum nodosum

Lacewing, common green, Chrysopa carnea

Lactuca sativa: 11 25, 26, 35; 14 26, 57.

Lactuca spp.: 2 12; 4 1.

Lagarosiphon major: 12 69.

Lagodon rhomboides: 1 7, 12; 4 10; 5 34; 7 39, 46.

Lagopus lagopus: 10 41; 14 81, 82.

Lagopus mutus: 10 41; 14 100.
Laminaria digitata: 12 26.
Laminaria hyperborea: 12 27.
Lamprey, Petromyzontidae
Lanistes carinatus: 13 7.
Lanternfishes, Myctophidae
Laomedea loveni: 2 23.
Lark
 Horned, Eremophila alpestris
 Southern meadow, Sturnella magna argutula
 Western meadow, Sturnella neglecta
Larus argentatus: 1 26-29, 32; 4 6; 5 15; 7 19; 8 1, 8, 13, 16, 23; 10 34.
Larus atricilla: 2 9; 4 6.
Larus californicus: 10 34.
Larus delawarensis: 4 6; 7 33, 36.
Larus fuscus: 6 14.
Larus marinus: 1 32.
Larus pipixcan: 4 6.
Lecanora conizaeoides: 14 48.
Ledum sp.: 10 21.
Leeches: 3 1; 5 6, 37; 9 19.
Leek, Allium porrum
Leiostomus xanthurus: 4 15; 7 39, 46.
Lemna media: 15 46.
Lemna minor: 6 30.
Lepidoptera: 3 26; 4 1, 19; 14 30.
Lepisosteus oculatus: 4 7.
Lepomis cyaneus: 3 9; 4 9; 5 18, 30, 35; 12 25, 55; 13 20.
Lepomis gibbosus: 6 12; 7 12; 10 28.
Lepomis macrochirus: 1 8, 12, 13; 2 31; 3 9; 4 7, 9; 5 17, 32, 37; 6 21, 26, 31, 41; 7 37; 9 8, 10; 11 37, 40-43, 45; 12 25, 47, 53, 55, 75; 13 8, 18, 20; 14 33, 63; 15 45.
Lepomis megalotis: 14 33.
Lepomis microlophus: 4 9.
Lepomis punctatus: 8 8.
Leptinotarsa decemlineata: 12 5.
Leptonychotes weddelli: 7 34.
Lepus europaeus: 7 24; 14 82.
Lepus sp.: 1 6; 3 15; 4 8; 5 28; 6 27, 38, 39; 7 42, 54, 55; 8 1, 12, 13, 24-26; 9 13, 16; 10 64; 11 1, 12; 12 72, 73; 14 91; 15 58, 59, 61.
Lettuce, Lactuca sativa, Lactuca spp.
Leuciscus idus melanotus: 15 40, 46.
Leucospus delineatus: 2 27.
Leuresthes tenuis: 13 6, 8, 11.
Lichen, Hypogymnia, Lecanora, Parmelia
Lily, water, Nuphar luteum
Limanda limanda: 2 8; 12 52; 15 38.
Limanda sp.: 12 35.

Limnodrilus hoffmeisteri: 3 10; 15 27.
Limnodrilus sp.: 11 45.
 Limpet,
 Slipper, Crepidula fornicata
 Various, Acmaea, Littorina, Patella
 Limpkin, Aramus guarauna
Lithobius variegatus: 14 57.
Littorina littorea: 2 5; 6 10; 12 28.
Loach, Misgurnis fossilis
 Lobster
 American, Homarus americanus
 Spiny, Nephrops, Panulirus
 Western rock, Panulirus cygnus
 Lobsters: 6 35; 11 32; 12 29, 81.
 Locoweed, Astragalus spp.
Loligo vulgaris: 12 28.
Lolium perenne: 7 11.
 Longspur, chestnut-collared, Calcarius ornatus
 Loon
 Arctic, Gavia arctica
 Common, Gavia immer
Lophius piscatorius: 6 37.
Lophodytes cucullatus: 7 19.
 Louse, wood, Oniscus, Porcellio
 Lugworm, Arenicola cristata
Lumbricus herculeus: 3 18.
Lumbricus rubellus: 8 17.
Lumbricus sp.: 3 18.
Lumbricus terrestris: 3 18; 14 30.
Lutjanus griseus: 11 43.
Lutra canadensis: 5 23; 7 10, 24, 33, 34; 10 36, 43, 54, 55, 64.
Lycopersicon esculentum: 4 1; 10 25; 11 35.
Lygaeidae: 4 1.
Lymnaea palustris: 14 59.
Lymnaea peregra: 14 72.
Lymnaea stagnalis: 15 39.
Lymnaea sp.: 15 45.
Lynx rufus: 10 36.
Lysmata caudata: 5 37.
Lysmata seticaudata: 5 13; 12 54, 55.

Macaca fascicularis: 14 94; 15 56.
Macaca iris: 14 94.
Macaca mulatta: 1 17; 3 8, 15; 7 iv, 54, 55, 58, 60; 8 25, 26; 10 54, 55, 65;
 14 95.
Macaca sp.: 3 16; 10 66; 12 66.
Machaeranthera spp.: 5 6.
Macoma balthica: 12 51; 14 86.

Macoma nasuta: 3 10.
Macrobrachium lamarrei: 6 20, 30.
Macrobrachium rosenbergerii: 1 4.
Macrocystis pyrifera: 6 33.
Macromia sp.: 7 37.
Macrosiphium gei: 10 25.
 Magpie, black-billed, Pica pica
Makaira indica: 2 8; 5 14; 10 28.
Makaira nigricans: 5 14; 10 28.
Malacosoma americanum: 14 30, 48.
 Mallard, Anas platyrhynchos
Malus malus: 5 5; 12 6; 15 65, 69.
Malus sylvestris: 12 22.
 Man, Human, Child, Infant, Homo sapiens
 Manatee, Tricheschus manatus
Manduca sexta: 9 25.
 Mangrove, Bruguiera, Rhizophora
 Maple, red, Acer rubrum
 Marlin
 Black, Makaira indica
 Blue, Makaira nigricans
 Marmoset, Callithrix jacchus
Marmota monax: 5 23; 15 32.
 Marten, Martes martes
Martes martes: 10 64.
Mastotermes darwinensis: 1 20, 33.
Matteuccia struthiopteris: 7 44.
 Meadowlark, Sturnella spp.
 Medaka, Oryzias latipes
Medicago sativa: 3 iii, 1, 23, 27, 28; 4 1, 18; 9 1; 10 21; 12 22, 39.
Meganyctiphanes norvegica: 5 12, 37.
Melanogrammus aeglefinus: 5 34; 10 48.
Melanoplus spp.: 12 56.
Meleagris gallopavo: 4 7; 9 iii, 8, 14; 12 4, 56, 59, 76, 77; 13 10, 12, 15;
 14 2; 15 8.
 Menhaden, Atlantic, Brevoortia tyrannus
Menidia beryllina: 13 8, 11.
Menidia menidia: 5 34; 6 22; 13 8, 11.
Menidia peninsula: 13 8, 11.
Menippe mercenaria: 12 29.
Mercenaria mercenaria: 4 10; 6 10, 33; 10 47; 11 40; 12 28.
 Merganser
 Common, Mergus merganser
 Hooded, Lophodytes cucullatus
 Red-breasted, Mergus serrator
Mergus merganser: 7 19.
Mergus serrator: 5 20; 7 19.
Mergus spp.: 7 22.

Meriones unguiculatus: 12 12.
Merlin, Falco columbarius
Metamysidopsis elongata: 15 44.
 Mice
 Deer, Peromyscus maniculatus
 White-footed, Peromyscus leucopus
Microcystis aeruginosa: 14 58.
Microgadus tomcod: 11 47.
Micropogonias undulatus: 6 37.
Micropterus dolomieu: 8 11; 12 25; 14 33, 64.
Micropterus ochrogaster, see Microtus ochrogaster
Micropterus salmoides: 4 7, 9, 15; 5 17, 37; 6 41; 7 12; 10 28, 46; 11 45; 12 25; 13 20.
Microtus agrestis: 5 6, 23.
Microtus arvalis: 8 12, 16.
Microtus ochrogaster: 1 5, 7, 11, 18, 30, 33; 14 44.
Microtus pennsylvanicus: 2 13; 14 47.
 Midge, Chaoborus, Chironomus, Tanytarsus
 Midge, phantom, Chaoborus puntipennis
 Milkvetch, Astragalus spp.
 Millipedes: 3 26; 14 30, 48.
Mimus polyglottos: 12 56.
 Mink, Mustela vison
 Minnow,
 Cyprinid, Phoxinus, Puntius
 Eastern mud, Umbra pygmaea
 Fathead, Pimephales promelas
 Mud, Umbra limi
 Sheepshead, Cyprinodon variegatus
 Various, Poeciliopsis
Misgurnis fossilis: 15 39.
 Mite
 European red, Panonychus ulmi
 McDaniel spider, Tetranychus mcdanieli
 Two-spotted spider, Tetranychus urticae
 Various, Arachnids
 Mockingbird, northern, Mimus polyglottos
 Mole, Talpa europaea
Molothrus ater: 3 12; 7 36, 40; 10 54; 12 56, 59.
 Monkey
 Cynomolgus, Macaca spp.
 Rhesus, Macaca mulatta
 Squirrel, Saimiri spp.
 Monkeys: 4 18; 5 26; 7 55; 8 24, 28, 29; 9 iii, 27; 11 1; 14 iii, 3, 87, 99, 108; 15 4, 61.
Montastrea annularis: 14 31.
 Moose, Alces alces
Morone saxatilis: 2 8, 17, 23; 4 10; 5 14; 6 21; 7 13, 31, 47, 60; 10 28, 40,

59; 12 26, 31; 13 6, 7.
 Mosquito, Aedes, Culex,
 Mosquitofish, Gambusia affinis
 Moss
 Irish, Chondrus crispus
 Various, Brachythecium, Hylocomium, Hypnum, Sphagnum
 Moth
 Codling, Carpocapsa pomonella
 Greater wax, Galleria melonella
 Pineapple gummosis, see Lepidoptera
 Mouse
 Beach, or Old field, Peromyscus polionotus
 Field, Microtus arvalis
 Domestic, Mus spp.
 Western jumping, Zapus princeps
 Wood, Apodemus sylvaticus
Moxostoma duquesnei: 14 33.
Mudalia potosensis: 11 38.
Mugil cephalus: 1 15; 4 6; 12 31; 13 8.
 Mullet
 Gray, Chelon labrosus
 Striped, Mugil cephalus
 Yellow-eye, Aldrichetta forsteri
Mullus barbatus: 15 27.
Mummichog, Fundulus heteroclitus
 Murre, common, Uria aagle
 Murrel, Channa punctatus
Mus spp.: 1 4, 6, 7, 10; 2 24, 26, 31; 3 11, 13, 24, 25; 4 8, 18; 5 39; 6 27,
 38, 39, 44; 7 41, 49, 55; 8 24-27.; 9 iv, 8, 13, 16, 18, 24-26; 10 67;
 11 1, 51-56, 62, 63; 12 12, 36, 38, 66, 73; 14 iii, 12, 53, 55, 87, 92,
 99, 104; 15 4, 8, 10, 52-55, 57, 59-61, 64, 65.
Musca domestica: 3 17, 18; 9 13.
Musca sp.: 3 23.
Muscidae: 1 21; 9 iii, 1, 3; 13 1.
 Muskrat, Ondatra zibethicus
 Mussel
 Common, Mytilus edulis
 Duck, Anodonta anatina
 Various, M. californianus, M. edulis planulatus, M. galloprovincialis
 Mussels: 5 16; 6 88; 10 61; 11 25, 28; 12 53; 15 20, 37.
Mustela putorius furo: 7 41, 43, 54; 10 64; 14 99.
Mustela vison: 7 iv, 10, 24, 33, 41-43, 53, 54, 58, 60, 61; 10 37, 43,
 54-56, 64, 66, 74.
Mustelus antarcticus: 12 35.
Mustelus canis: 6 11.
Mya arenaria: 6 33, 34; 10 25, 47; 11 27, 29, 32; 14 52, 66; 15 45.
Myctophidae: 14 100.
Myotis grisescens: 7 24.

Myotis lucifugus: 7 25, 34; 14 44, 53.
Myotis spp.: 14 44.
Myoxocephalus scorpius: 2 9.
Myriophyllum spicatum: 6 30.
Mysidopsis bahia: 4 10, 15; 5 33; 6 26; 9 11, 22; 10 48, 59; 12 51; 13 6, 7; 14 66; 15 45.
Mysidopsis spp. 2 16, 23; 7 27.
Mysis relicata: 7 11, 29.
Mystus vittatus: 3 9, 20, 21.
Mytilus californianus: 10 25, 43; 11 48.
Mytilus edulis: 2 5; 3 10; 5 12; 6 10, 34; 10 25, 48; 11 28, 32, 45; 12 28, 51; 14 31, 65, 66; 15 30, 41, 42, 48.
Mytilus edulis planulatus: 2 5.
Mytilus galloprovincialis: 5 12, 30, 37; 12 53.
Myxine glutinosa: 11 47.

Nais sp.: 6 23.
Najus guadalupensis: 14 71.
Nassarius obsoletus: 12 51; 15 45, 49.
Natrix sp.: 5 17.
Navicula sp.: 14 70.
Neanthes arenaceodentata: 6 22, 24, 26, 36; 11 37-39, 43; 14 66.
Nematode, Brugia, Bursaphelenchus, Panagrellus, Parafilaria
Nematodes: 9 iii, 1; 15 15.
Nephrops norvegicus: 10 24.
Nephtys hombergi: 2 7.
Neptunus pelagicus: 10 13.
Nereis diversicolor: 2 7; 6 10.
Nereis virens: 5 36; 6 22; 7 47; 11 45.
Neritina sp.: 15 45.
Nerodia cyclopion: 7 15.
Nerodia rhombifera: 7 17.
Nerodia sipedon: 14 35.
Nerodia spp.: 7 31.
Nicotiana tabacum: 2 12; 3 4, 23; 5 22; 6 13, 42; 10 22; 12 6.
Nicrophorus tomentosus: 14 31.
Nitroca spinipes: 15 44, 47.
Nitzschia liebethrutti: 15 48.
Nostoc muscorum: 3 18.
Notopterus notopterus: 10 46, 59.
Notropis hudsonius: 8 11; 12 48.
Notropis venustus: 4 7.
Nucella lapillus: 15 49.
Nucellus lapillus: 15 30, 40.
Nuphar luteum: 2 10.
Nycticorax nycticorax: 1 32; 7 19, 32, 52; 8 1.
Nycticorax violaceus: 4 7.

Oak, Quercus spp.
 Oat, Avena sativa
Oceanodroma furcata: 1 32.
Octochaetus pattoni: 10 57, 68.
Octopus, Paroctopus sp.
Odobenus rosmarus: 2 10.
Odocoileus hemionus: 4 12; 10 54, 56, 64; 12 68, 72; 14 53, 104.
Odocoileus virginianus: 2 14; 5 23; 12 34, 68; 14 45, 53; 15 32.
Odonata: 9 19.
Oedogonium cardiacum: 3 22; 5 31; 8 19; 11 42.
Oedogonium sp.: 6 30.
 Okra, Abelmoschus esculentus
Oligochaetes: 7 29; 15 27, 48.
Olisthodiscus lutens: 6 32.
Ommastrephes bartrami: 2 5.
Oncorhynchus gorbuscha: 11 38; 12 52.
Oncorhynchus keta: 12 49.
Oncorhynchus kisutch: 1 7, 8, 27, 29; 2 18; 3 9; 4 9; 5 18, 32; 6 31; 7 14, 30, 31, 49; 8 11, 12, 18, 21; 11 38; 12 26; 14 69.
Oncorhynchus spp.: 6 21, 23, 25.
Oncorhynchus tshawytscha: 1 27; 2 17; 5 18; 6 31; 7 30, 61; 15 34.
Ondatra zibethicus: 10 37, 43; 14 45; 15 32.
 Onion, Allium sp.
Oniscus asellus: 14 57.
Onopsis spp.: 5 6.
Ophioderma brevispina: 15 42.
Oplegnathus fasciatus: 9 8, 11.
Opsanus beta: 13 9, 10, 11.
 Orange, Mandarin, Citrus tachibana
Orchestia traskiana: 15 45.
Orconectes immunis: 13 7.
Orconectes limosus: 10 46.
Orconectes nais: 7 37, 45; 14 71.
Orconectes virilis: 10 23.
 Orfe, golden, Leuciscus idus melanotus
Oryctolagus cuniculus: 13 14; 15 10, 11, 52, 64.
Oryza sativa: 3 iii, 1, 8, 19, 27; 5 22; 8 29; 9 1; 10 22; 12 39, 40; 14 26.
Oryzaephilus surinamensis: 13 1.
Oryzias latipes: 2 22.
Osmerus mordax: 1 27, 29; 8 11; 15 31.
 Osprey, Pandion haliaetus
Ostrea edulis: 15 2, 30, 42.
 Otter
 River, Lutra canadensis
 Sea, Enhydra lutris
Otus asio: 7 52, 60.
Ovis aries: 3 13; 9 14, 27; 10 37; 12 68, 69; 14 iii, 3, 12, 45, 55, 87, 92-94, 99; 15 33.

Ovis canadensis: 6 15.
Ovis sp.: 1 33; 3 24; 4 8, 18, 19; 5 1, 26, 28, 29, 41; 9 1, 24; 10 43; 12 3;
 15 15, 60, 64, 68.
 Owl
 Barn, Tyto alba
 Eagle, Bubo bubo
 Great horned, Bubo virginianus
 Long-eared, Asio otus
 Screech, Otus asio
 Oyster
 American, Crassostrea virginica
 European flat, Ostrea edulis
 Pacific, Crassostrea gigas
 Sydney rock, Crassostrea commercialis
 Oystercatcher, Eurasian, Haematopus ostralegus
 Oysters: 5 27; 6 17, 34, 44; 7 48, 49; 11 40; 15 11, 20, 27, 34, 43, 70.
Pachymetopan grande: 6 37.
Pacifastacus sp.: 10 23.
Pagophilus groenlandica: 10 54, 56, 65, 74.
Pagurus longicarpus: 2 16.
 Paintbrush, Indian, Castilleja spp.
Palaemon macrodactylus: 4 10.
Palaemonetes kadiakensis: 4 9; 7 37, 45.
Palaemonetes pugio: 2 7; 4 10; 6 35; 7 38; 11 37-39; 13 7; 14, 31; 15
 45, 48.
Palaemonetes vulgaris: 1 12, 15, 21, 22; 2 16.
 Palm, Iraqi date, Phoenix sp.
Panagrellus redivivus: 9 25, 28.
Pandalus borealis: 12 29, 35.
Pandalus montagui: 2 7; 14 31.
Pandalus spp.: 12 29.
Pandion haliaetus: 4 7; 6 14; 10 34; 12 21, 32.
Panonychus ulmi: 15 65.
Pantala hymenea: 2 28.
 Panthers: 14 99.
Panulirus cygnus: 12 35.
Panulirus interruptus: 2 7.
Papio anubis: 14 95, 99.
Paracentrotus lividus: 14 31.
Parafilaria bovicola: 12 12.
Paralichthys dentatus: 5 34.
Paralithodes camtschatica: 12 29.
Paramecium caudatum: 11 48.
Paranais sp.: 8 19.
Parmelia baltimorensis: 14 23, 24.
Paroctopus sp.: 12 35.
Parophrys vetulus: 11 45, 46, 48; 12 32.

Partridge, gray, Perdix perdix
Paspalum notatum: 1 21, 23.
Passer domesticus: 3 12, 15; 5 23; 9 9; 10 52; 13 13; 14 39.
Patella caerulea: 15 27, 30.
 Pea, Pisum sativum
 Peanut, Arachis hypogea
 Pear, Pyrus communis
Pecten alba: 12 35.
Pecten maximus: 2 6; 15 30, 34.
Pelecanus occidentalis: 2 10; 4 7; 5 14; 6 14; 10 34; 12 21, 32; 14 39.
Pelecanus sp.: 4 14; 7 34, 53.
 Pelican
 Brown, Pelecanus occidentalis
 Various, Pelecanus sp.
Penaeopsis joyneri: 9 20.
Penaeus aztecus: 5 34; 7 38; 9 11; 11 38, 40; 12 29; 13 6.
Penaeus duorarum: 4 10; 7 38; 11 40, 43.
Penaeus indicus: 10 48.
Penaeus latisulcatus: 12 35.
Penaeus setiferus: 10 61; 12 29; 13 21.
Penaeus sp.: 2 7.
 Penguin, Adelie, Pygoscelis adeliae
Perca flavescens: 3 9; 4 9; 5 32; 7 38, 48; 8 11, 16; 10 29; 12 26; 15 31.
 Perch
 Climbing, Anabas testudineus
 Yellow, Perca flavescens
Perdix perdix: 4 12; 7 20; 10 2, 52, 62; 12 60.
 Periwinkle, Littorina littorea
Pernis apivorus: 14 2, 3.
Peromyscus leucopus: 2 25; 3 15; 7 41, 56; 9 iv, 2, 23, 24, 26; 14 45, 47, 53; 15 61.
Peromyscus maniculatus: 11 54; 14 45, 46, 53; 15 33.
Peromyscus polionotus: 1 7, 17; 3 13-15; 8 8.
 Petrel, storm, Oceanodroma furcata
 Petromyzontidae: 11 33.
Phaeodactylum tricornutum: 2 22; 14 65, 70.
Phalacrocorax auritus: 7 20, 32; 8 8, 13.
Phalacrocorax carbo: 7 21, 36.
Phalacrocorax sp.: 1 32.
Phaseolus sp.: 3 23; 4 1.
Phaseolus vulgaris: 7 29; 14 56.
Phasianus colchicus: 1 6, 7; 2 12; 3 12, 14; 4 8, 12, 17; 5 23; 7 21, 33, 40; 9 iv, 1, 14, 23, 30; 10 2, 34, 50, 52, 54, 63, 71; 12 60; 13 13, 15; 14 12.
Phasianus sp.: 3 8, 16; 5 6; 7 52, 53; 14 86.
 Pheasant, ring-necked, Phasianus colchicus
Philodena acuticornis: 6 20.
Philohela minor, see Scolopax minor

Phleum pratense: 7 11.
Phoca groenlandica: 6 12; 10 43.
Phoca hispida: 5 15; 7 25; 10 61, 64.
Phoca spp.: 5 15, 25.
Phoca vitulina: 5 15; 7 34; 10 37; 12 34; 14 53; 15 33.
Phoenix sp.: 13 23.
Phoxinus phoxinus: 7 48; 12 48.
Physa heterostropha: 6 20.
Physa sp.: 5 31; 8 19; 11 42, 46.
Physeter macrocephalus: 7 25.
Pica pica: 10 54.
Picea abies: 14 26, 48.
Picea alba: 12 22.
Pickereel, chain, Esox niger
Pieris brassicae: 9 6, 13.
Pig
 Guinea, Cavia spp.
 Domestic, Sus spp.
Pigeon, domestic, Columba livia,
Pike, northern, Esox lucius
Pimephales promelas: 1 8, 12, 13, 18; 2 31; 3 9; 4 9, 11, 14-16; 5 32; 6
 24-26; 7 51; 8 18, 22; 9 10, 18, 22; 10 58; 11 38, 41; 12 48, 55; 13 6,
 7, 20; 14 64; 15 46.
Pine
 Mugho, Pinus sp.
 Shortleaf, Pinus echinata
Pinfish, Lagodon rhomboides
Pinna nobilis: 6 33.
Pinnipeds: 14 99.
Pintail, northern, Anas acuta
Pinus echinata: 14 26.
Pinus silvestrus: 12 22, 41.
Pinus sp.: 3 4, 15, 23; 12 41.
Pisum sativum: 4 19; 12 39, 41.
Pitar morrhuana: 6 10.
Pitymys (= Microtus) pinetorum: 14 91.
Placopecten magellanicus: 2 6; 11 28; 12 28.
Plaice, Platichthys flesus, Pleuronectes platessa
Plant, marine flowering, Posidonia oceanica
Platichthys flesus: 2 8; 7 31, 48, 60; 11 40; 14 33.
Platymonas subcordiformis: 14 70.
Plegadis chihi: 5 14.
Pleuronectes flesus: 10 61.
Pleuronectes platessa: 14 67.
Plumaria elegans: 12 50.
Poa annua: 12 6, 39.
Pochard, Aythya ferina
Podiceps cristata: 10 35.

Podiceps nigricollis: 5 20.
Podiceps spp.: 7 22.
Podicipediformes: 10 12.
Podilymbus podiceps: 4 6.
Podoclavella moluccensis: 6 11.
Podophthalmus vigil: 6 34.
Poecilia reticulata: 3 21; 4 9; 5 6, 37; 8 18, 21, 28; 10 61; 14 71; 15 46.
Poeciliopsis spp.: 11 36, 48.
Polecat, Mustela putorius furo
Polychaetes, Capitella, Neanthes, Nereis
Pomatomus saltatrix: 2 8; 10 40.
Pomoxis annularis: 2 11.
Pontoporeia affinis: 2 23, 29.
Pontoporeia hoyi: 11 45.
Populus tremuloides: 7 11.
Porcellio scaber: 14 48, 57.
Porcellio sp.: 5 22.
Porcupine, Erethizon dorsatum
Porgy, Pachymetopan grande
Porgy, black, Sparus macrocephalus
Porphyra martinica: 4 7.
Porthetria dispar: 14 31.
Porzana carolina: 14 40.
Posidonia oceanica: 10 22.
Potamogeton crispus: 2 3; 15 4.
Potamogeton foliosus: 14 71.
Potamogeton richardsoni: 2 10.
Potamogeton spp.: 12 23; 14 27.
Potato
 Common, Solanum tuberosum
 Sweet, Ipomoea batatas
Prawn
 Deep sea, Pandalus borealis
 Freshwater, Macrobrachium tamarrei, M. rosenbergii
 Various, Pandalus montagui, Pandalus spp., Penaeus indicus, Penaeus
 tatisulcatus
Prionace glauca: 12 35.
Pristina sp.: 2 21.
Procambarus acutus acutus: 3 9.
Procambarus blandingi: 1 4, 12, 21.
Procambarus clarki: 1 14, 18; 9 19; 13 7.
Procambarus spp.: 4 7.
Procyon lotor: 1 21; 5 24; 7 41, 56; 10 38, 43; 14 46, 99, 104.
Pronghorn, Antilocapra americana
Prosopium cylindraceum: 10 29; 15 31.
Protozoan, Chilomonas, Cristigera, Entosiphon, Paramecium, Tetrahymena,
 Uronema
Prunus avium: 10 22.

Prunus serotina: 14 27, 48.
Psettichthys melanostictus: 11 40, 42.
Pseudagrion spp.: 13 7.
Pseudomonas sp.: 3 6; 5 4; 9 3; 15 4.
Pseudopleuronectes americanus: 2 23; 5 34; 8 18; 11 29; 15 31.
Pseudorasbora parva: 9 20.
 Ptarmigan
 Common, Lagopus mutus
 Willow, Lagopus lagopus
Pteronarcella badia: 7 37; 13 6, 7.
Pteronarcys californica: 9 10; 12 46; 13 7.
Pteronarcys dorsata: 12 46.
Pteronarcys sp.: 4 9.
Ptychocheilus oregonensis: 10 40.
 Puffins, Fratercula spp.
Puffinus pacificus: 5 14.
 Pumpkinseed, Lepomis gibbosus
Puntius conchonius: 14 64.
Pygoscelis adeliae: 2 9.
Pyrus communis: 4 1; 5 22; 15 65, 69.
 Pytiscidae: 2 28.

Quail

 California, Callipepla californica
 Common, Coturnix coturnix
 Coturnix, Coturnix risoria
 Japanese, Coturnix japonica
Quelea, Quelea quelea
Quelea quelea: 3 12, 15.
Quercus spp.: 12 41.
Quiscalus mexicanus: 4 6.
Quiscalus quiscula: 3 12, 17; 7 36, 52; 10 54; 13 13.

Rabbit,

 Various, Lepus, Oryctolagus, Sylvilagus
 White, Oryctolagus cuniculus
 Raccoon, Procyon lotor
 Racerunner, six-lined, Cnemidophorus sexlineatus
 Radish, Raphanus sativus
 Rail
 Clapper, Rallus longirostris
 Sora, Porzana carolina
Raja erinacea: 8 18.
Raja sp.: 12 32, 35.

Rallus longirostris: 1 32; 4 7.
Rana catesbeiana: 8 20; 9 10; 10 30; 13 6; 14 34, 50, 72.
Rana clamitans: 14 50.
Rana pipiens: 6 12; 10 30, 47, 59; 11 49; 14 72.
Rana sphenoccephala: 4 9.
Rana spp.: 12 32; 14 34.
Rana temporaria: 15 46.
Rana temporaria: 10 31.
Rana utricularia: 14 72.
Rangia cuneata: 3 10, 22; 6 34; 11 36, 41, 43, 44.
Rangifer tarandus: 10 64; 14 100.
Raphanus sativus: 14 56.
Rasbora heteromorpha: 15 46.
 Rat

Cotton, Sigmodon hispidus
 Laboratory white, Rattus spp.

Norway, Rattus norvegicus

Rattus norvegicus: 5 24; 7 41; 13 14; 14 46, 47.
Rattus spp.: 1 3-7, 10, 16; 2 iii, 19, 31; 3 11, 13, 15, 16, 23-25; 4 4, 8, 18, 5 iv, 26-29, 39, 41, 43, 44; 6 18, 27, 38-40; 7 41-43, 49, 54, 55, 58, 60; 8 24-29; 9 iv, 8, 13, 14, 24, 26, 30; 10 12, 65, 66; 11 1, 49, 51-53, 55, 63; 12 11, 69, 70, 73; 14 iii, 12-15, 55, 87, 95-97, 99, 108; 15 3, 4, 8, 10, 11, 52-64, 68

Ray, Raja sp.

Recurvirostra americana: 5 20.

Redhead, Aythya americana

Redhorse, black, Moxostoma duquesnei

Redshank, Icelandic, Tringa totanus robusta

Rhizophora spp.: 1 12; 10 20.

Rice,

Domestic, Oryza sativa

Wild, Zizania aquatica

Rissa tridactyla: 7 21.

Rithropanopeus harrisi: 4 10; 15 36, 45.

Robin,

American, Turdus migratorius

European, Erithacus rubecula

Rotifer, Brachionus plicatilis

Rudd, Scardinius erythrophthalmus

Rye, Secale cereale

Rye, perennial, Lolium perenne

Rynchops niger: 7 21, 32.

Saccharum officinarum: 3 1; 8 29.

Saccobranhus fossilis: 3 9.

Sagebrush, big, Artemisia tridentata

Saguinus fuscicollis: 9 1.

Saimiri spp.: 6 18.

Salamander

Marbled, Ambystoma opacum

Tiger, Ambystoma tigrinum

Salmo clarki: 7 38; 9 10; 13 8.

Salmo gairdneri: 1 8; 2 11, 18, 27, 28; 3 9; 4 3, 9; 5 26, 33, 35, 36, 40, 41; 6 20, 24-26, 31, 32; 7 31, 37, 47-49, 57, 60; 8 8, 11, 18, 20, 28; 9 8, 10; 10 46, 49, 59-61; 11 15, 37, 41, 43, 44, 48; 12 26, 48, 53, 55; 13 8; 14 13, 55, 57, 60-62, 69; 15 37, 43, 47.

Salmo salar: 1 12, 13; 2 22; 5 26; 7 31, 48; 11 41, 43; 12 26; 15 32, 34.

Salmo spp.: 10 29.

Salmo trutta: 3 9; 4 9; 5 36; 7 47, 49; 8 11; 11 33.

Salmon

Atlantic, Salmo salar

Chinook, Oncorhynchus tshawytscha

Chum, Oncorhynchus keta

Coho, Oncorhynchus kisutch

Pink, Oncorhynchus gorbuscha

Various, Salmonidae

Salmonella: 2 31; 3 25; 4 18.

Salmonella typhimurium: 3 25; 6 30; 7 55; 8 17; 11 34, 49; 12 35.

Salmonidae: 5 iii, 18; 7 10, 47, 54; 10 40; 15 34, 70.

Saltbush, Atriplex spp.

Salvelinus fontinalis: 1 13, 18, 27; 2 18, 20, 22; 4 14, 15, 16; 5 33; 6 26; 7 12, 31, 48, 49, 51; 9 10, 18, 20, 22; 10 29, 46, 49, 59-61, 70, 74; 12 49; 14 62, 63.

Salvelinus namaycush: 1 27; 3 9; 4 5; 5 27, 35; 6 12, 26; 7 27, 31, 47, 60, 61; 8 8, 11; 9 10; 10 29; 12 26; 13 9; 14 62; 15 32.

Sanddab, speckled, Citharichthys stigmaeus

Sandpiper

Solitary, Tringa solitaria

Spotted, Actitis macularia

Various, Calidris, Erolia

Sarcophagus papa: 14 3.

Sargassum fluitans: 12 27.

Sargassum sp.: 12 27.

Sauger, Stizostedion canadense

Scallop

Bay, Argopecten irradians

Giant, Placopecten magellanicus

Pacific, Chlamys ferrei nipponensis

Rock, Hinnites multirugosus

Various, Pecten

Scardinius erythrophthalmus: 6 31.

Scaup, lesser, Aythya affinis

Scenedesmus obliquus: 12 44, 45.

Scenedesmus quadricauda: 7 48; 15 38.

Sciurus carolinensis: 2 14; 10 38.

Sciurus hudsonicus: 2 14.

Scolopax minor: 1 31; 3 18; 7 21.
Scombridae: 5 13.
Scophthalmus aquosus: 7 13, 31; 11 30; 12 32.
 Screech-owl, eastern, Otus asio
Scripsiella faeroense: 10 59.
Scrobicula plana: 2 6.
 Scud, Gammarus, Hyaella
 Sculpin, shorthorn, Myoxocephalus scorpius
 Sea-eagle, white-tailed, Haliaeetus albicilla
 Sea lion, California, Zalophus californianus
 Sea urchin, Anthodidaris, Arbacia, Echinodermata, Hemicentrotus, Paracentrotus
 Seal
 Australian fur, Arctocephalus pusillus
 Gray, Halichoerus grypus
 Harbor, Phoca groenlandica, P. vitulina
 Harp, Pagophilus groenlandica
 Northern fur, Callorhinus ursinus
 Ringed, Phoca hispida
 Weddell, Leptonychotes weddell
 Seatrout, spotted, Cynoscion nebulosus
Secale cereale: 5 2; 6 13; 11 26; 12 12.
Selenastrum capricornutum: 12 45; 14 58, 71.
Sepiotheuthis australis: 12 35.
Sergestes lucens: 12 30.
Seriola quinqueradiata: 9 9.
Sesarma cinereum: 4 10.
Sesarma heamatocheir: 6 24.
 Shad
 Gizzard, Dorosoma cepedianum
 Threadfin, Dorosoma petenense
 Shark
 Blue, Prionace glauca
 Shortfin mako, Isurus oxyrinchus
 Various, Carcharhinus, Mustelus, Sphyrna
 Whitetip, Carcharhinus longimanus
 Sharks: 10 40, 74.
 Shearwater, wedge-tailed, Puffinus pacificus
 Sheep
 Bighorn, Ovis canadensis
 Domestic, Ovis aries, Ovis sp.
 Shell
 Ivory, Buccinum striatissimum
 Spindle, Hemifusus
 Shiner
 Blacktail, Notropis venustus
 Spottail, Notropis hudsonius
 Shoveler, northern, Anas clypeata
 Shrew

Common, Sorex araneus
 Short-tailed, Blarina brevicauda
 Shrimp
 Brine, Artemia salina
 Brown, Penaeus aztecus
 Glass, Palaemonetes kadiakensis
 Grass, Palaemonetes pugio, P. vulgaris
 Korean, Palaemon macrodactylus
 Mysid, Metamysidopsis, Mysidopsis, Mysis
 Pink, Penaeus duorarum
 Sand, Crangon crangon
 Various, Lysmata, Penaeopsis, Sergestes
 White, Penaeus setiferus
 Shrimps: 5 17, 37; 6 35; 7 38, 47, 48; 9 iii, 8; 10 24; 12 29, 30, 81; 13 19;
 15 37.
 Sicklepod, Cassia spp.
Sigmodon hispidus: 6 5, 15, 42.
 Silkworm, Bombyx mori
Sillago bassensis: 12 56.
 Silverside
 Atlantic, Menidia menidia
 Inland, Menidia beryllina
 Tidewater, Menidia peninsula
Simocephalus serrulatus: 2 17; 9 10; 12 47.
Simocephalus sp.: 4 9.
Simulium sp.: 14 31.
 Siphonoptera: 9 3; 13 1.
 Skate, little, Raja erinacea
Skeletonema costatum: 2 22; 12 50; 14 65; 15 38-40, 43, 45, 47.
 Skimmer, black, Rynchops niger
 Skipper, mud, Boleophthalmus dussumieri
 Skua, great, Catharacta skua
 Slug, Agriolimax reticulatus
 Smelt, rainbow, Osmerus mordax
 Snail
 Land, Helix aspersa
 Mud, Nassarius obsoletus
 Pond, Cipangopoludina malleata
 Ram's horn, Helisoma trivolvis
 Red, Indoplanorbis exustus
 Various, Amnicola, Arcularia, Australorbus, Biomphalaria, Bulinus,
 Helisoma, Helix, Lanistes, Lymnaea, Mudalia, Neritina, Physa,
 Viviparus
 Snake
 Garter, Thamnophis sp.
 Northern water, Nerodia sipedon
 Water, Natrix, Nerodia
 Snapper, mangrove, Lutjanus griseus

Solanum tuberosum: 5 22; 12 6, 12; 14 27.

Sole

English, Parophrys vetulus

Sand, Psettichthys melanostictus

Various, Limanda, Solea, Trinectes

Solea solea: 7 8; 15 44.

Solenopsis invicta: 1 iii, 1, 11, 20, 21, 23, 24, 33; 13 1.

Solidago graminifolia: 7 11.

Somateria mollissima: 1 32; 2 9; 6 14.

Sorex araneus: 14 47.

Sorghum, Sorghum halopense

Sorghum halopense: 3 22; 12 68.

Soybean, Glycine max

Sparrow

Chipping, Spizella passerina

House, Passer domesticus

Sparrowhawk, European, Accipiter nisus

Spartina alterniflora: 10 20; 12 53.

Spartina spp.: 6 9.

Sparus macrocephalus: 10 14.

Spermophilus variegatus: 5 24.

Sphagnum spp.: 10 22.

Sphyngidae: 12 6.

Sphyrna spp.: 10 29.

Spider, Araneus umbricatus

Spinach, Spinacia oleracea

Spinacia oleracea: 11 35.

Spizella passerina: 2 27.

Spot, Leiostomus xanthurus

Spruce, Picea spp.

Squalus acanthias: 12 32; 15 32.

Squawfish, northern, Ptychocheilus oregonensis

Squid, Loligo, Ommastrephes, Sepioteuthis

Squids: 6 10.

Squirrel

Gray, Sciurus carolinensis

Red, Sciurus hudsonicus

Rock, Spermophilus variegatus

Stanleya spp.: 5 6.

Starfish, Asterias forbesi

Starling, European, Sturnus vulgaris

Stelgidopteryx serripennis: 14 40.

Stenella coeruleoalba: 10 38, 43.

Sterna forsteri: 4 6; 8 8, 13.

Sterna fuscata: 5 14.

Sterna hirundo: 2 10; 10 63; 14 82.

Sterna maxima: 5 14.

Sterna paradisaea: 7 22.

Stichopus japonicus: 12 35.

Stickleback

Fourspine, Apeltes quadracus

Threespine, Gasterosteus aculeatus

Stilt, black-necked, Himantopus mexicanus

Stizostedion canadense: 2 11.

Stizostedion vitreum vitreum: 2 11, 20; 6 26; 7 14; 10 29.

Strawberry, Fragaria vesca

Streptopelia capicola: 1 9.

Streptopelia risoria: 2 24; 7 36, 50, 53, 60; 8 23; 13 14; 14 82, 83.

Sturgeon

Sevyuga, Accipenser stellatus

Sheep, Accipenser nudiiventris

Sturnella magna argutula: 8 8.

Sturnella neglecta: 9 29.

Sturnus vulgaris: 1 6; 2 13; 3 12; 7 22, 32, 36, 40; 9 14; 10 54, 62; 12 33;
13 13; 14 40, 41, 52, 84, 107.

Stylodrilus sp.: 11 45.

Sucker, white, Catostomus commersoni

Sugar cane, Saccharum officinarum

Sula leucogaster: 7 23.

Sula sula: 5 14.

Sunfish

Green, Lepomis cyanellus

Longear, Lepomis megalotis

Redear, Lepomis microlophus

Spotted, Lepomis punctatus

Sunflower, Helianthus spp.

Sus spp.: 5 26, 28-30, 39, 44; 8 1, 5,; 9 iv, 8, 13, 14, 16, 24, 27; 10
12, 54, 55; 12 6, 11, 70, 77, 81; 13 12; 14 86, 98, 99.

Swallow

Barn, Hirundo rustica

Northern rough-winged, Stelgidopteryx serripennis

Swan

Mute, Cygnus olor

Trumpeter, Cygnus buccinator

Tundra, Cygnus columbianus

Swine, Sus spp.

Swordfish, Xiphias gladius

Sylvilagus floridanus: 2 14; 7 41.

Sylvilagus sp.: 12 71.

Tadpoles: 12 11.

Talpa europea: 5 24.

Tamarin, Saguinus fuscicollis

Tanytarsus dissimilis: 2 17; 5 31; 7 51; 14 60.

Tapes decussatus: 10 61.

Tapeworm: 12 3.

Tea, Labrador, Ledum sp.

Teal

Blue-winged, Anas discors

Green-winged, Anas carolinensis

Termite

Australian, Mastotermes darwinensis

Rhodesian, Trinervitermes dispar

Tern

Arctic, Sterna paradisaea

Common, Sterna hirundo

Forster's, Sterna forsteri

Royal, Sterna maxima

Sooty, Sterna fuscata

Terrapene carolina: 1 21; 14 35.

Tetraedron sp.: 13 18.

Tetrahymena pyriformis: 5 35; 7 45.

Tetranychus mcdanieli: 15 65.

Tetranychus urticae: 15 65.

Tetraselmis chui: 12 54.

Thais lapillus: 2 6.

Thalassiosira aestivalis: 12 50.

Thalassiosira pseudonana: 15 37, 39.

Thamnophis sp.: 11 49.

Thomomys sp.: 9 1.

Thynnus spp.: 5 14; 10 40.

Tilapia, Mozambique, Tilapia mossambica

Tilapia mossambica: 14 49; 15 46.

Timothy, Phleum pratense

Tipula sp.: 4 9; 5 22.

Tisbe holothuriae: 6 22.

Toad

European, Bufo bufo

Narrow-mouthed, Gastrophryne carolinensis

Various, Bufo sp., Bufo terrestris

Toadfish, Gulf, Opsanus beta

Toadflax, bastard, Comandra

Tobacco, Nicotiana tabacum

Tomato, Lycopersicon esculentum

Tomcod, Microgadus tomcod

Triaenodus tardus: 3 21.

Trichechus manatus: 7 25, 34.

Trichogaster pectoralis: 3 21.

Tridacna maxima: 11 28; 12 35.

Trifolium sp.: 4 1.

Trinectes maculatus: 1 14.

Trinervitermes dispar: 6 14.

Tringa solitaria: 7 23.

Tringa totanus robusta: 12 33.

Triticum aestivum: 2 12; 5 22; 9 25; 10 1; 11 25, 26; 12 12, 43.

Triticum vulgare: 15 28.

Triturus cristatus: 11 49.

Trout

Brook, Salvelinus fontinalis

Brown, Salmo trutta

Cutthroat, Salmo clarki

Lake, Salvelinus namaycush

Rainbow, Salmo gairdneri

Spotted sea, Cynoscion nebulosus

Tubifex costatus: 12 51.

Tubifex sp.: 6 30; 14 32.

Tubifex tubifex: 3 10; 15 27, 45.

Tuna

Japanese, Scombridae

Various, Thynnus spp.

Tunas: 10 30; 14 34.

Tunicate, Podoclavella moluccensis

Turdus merula: 5 23;

Turdus migratorius: 2 12; 7 23; 12 56; 14 41.

Turkey, Meleagris gallopavo

Turnip, Brassica rapa

Turtle

Atlantic green, Chelonia mydas

Box, Terrapene carolina

Slider, Chrysemys scripta

Snapping, Chelydra serpentina

Loggerhead, Caretta caretta

Turtle-dove, ringed, Streptopelia risoria

Tuskfish, scarbreast, Choerodon azurio

Tympanuchus cupido: 10 52.

Tympanuchus cupido attwateri: 7 23.

Tympanuchus phasianellus: 4 12.

Tyto alba: 7 53.

Uca minax: 3 22.

Uca pugilator: 2 23; 10 48, 61; 15 37, 43.

Uca sp.: 13 19, 21.

Ulmus americana: 15 28.

Ulva sp.: 14 27.

Umbra limi: 9 18.

Umbra pygmaea: 6 13; 11 48.

Upeneus moluccensis: 15, 27.

Uria aalge: 7 23.

Uronema marinum: 10 47.

Uronema nigricans: 10 61.

Uronema sp.: 14 59.

Urophycus chuss: 11 30.

Ursus maritimus: 7 1, 25.

Vaccinium angustifolium: 12 22.

Vaccinium pallidum: 14 27.

Vigna sp.: 12 41.

Vitis sp.: 5 22.

Voie

Bank, Clethrionomys glareolus

Field, Microtus agrestis

Meadow, Microtus pennsylvanicus

Pine, Pitymys (= Microtus) pinetorium

Prairie, Micropterus ochrogaster, Microtus ochrogaster

Viviparus ater: 14 14.

Vulpes sp.: 12 34; 14 99; 15 33.

Vulpes vulpes: 10 39, 43, 64.

Vultur gryphus: 14 2.

Vulture, king, Sarcorhampus papa

Walleye, Stizostedion vitreum vitreum

Walrus, Odobenus rosmarus

Watermilfoil, Eurasian, Myriophyllum spicatum

Weed

Duck, Lemna minor

Lake, Lagarosiphon major

Loco, Astragalus

Pond, Ceratophyllum, Najas, Navicula, Potamogeton

Sargassum, Sargassum fluviatans

Sea, Chondrus, Fucus, Sargassum

Water, Elodea

Whale

Cuvier's goosebeaked, Ziphius cavirostris

Fin, Balaenoptera physalis

Pilot, Globicephala macrorhynchus

Sperm, Physeter macrocephalus

Wheat, Triticum aestivum, Triticum vulgare

Whelk

Common dog, Nucella lapillus, Nucellus lapillus

Various, Kelletia kelletia, Thais lapillus

Whistling-duck, fulvous, Dendrocygna bicolor

Whitefish

Lake, Coregonus clupeaformis

Round, Prosopium cylindraceum

Various, Coregonus spp.

Whiting, Sillago bassensis

Wigeon, American, Anas americana

Wolffish, spotted, Anarhicas minor

Woodchuck, Marmota monax

Woodcock, American, Scolopax minor

Woodlice: 14 32, 48.

Worm

Earth, Allolobophora, Eisenia, Lumbricus, Octochaetus

Horn, Sphingidae

Lug, Arenicola cristata

Marine, Nephtys hombergi

Sand, Nereis diversicolor

Silk, Bombyx mori

Tiger, Eisenia foetida

Tobacco horn, Manduca sexta

Various, Limnodrilus, Nais, Neanthes, Paranais, Stylodrilus, Tubifex

Worms: 6 44; 7 8, 28, 50; 14 35; 15 8, 15.

Xenopus laevis: 5 31, 35; 11 49.

Xiphias gladius: 5 14; 10 30.

Yeasts: 3 26; 12 9, 41.

Yellowtail, Seriola quinqueradiata (= alandei)

Zalophus californianus: 2 10; 5 15, 25; 10 39, 43; 14 52.

Zapus princeps: 6 15.

Zea mays: 3 iii, 1, 4, 5, 15, 17, 21, 26-28; 4 19; 5 22; 6 13; 8 16; 9 1; 12 12, 43; 14 48, 56; 15 28.

Zebrafish, Brachydanio rerio

Zenaida (= Zenaidura) macroura: 7 23, 50, 60; 10 35; 14 2, 85.

Ziphius cavirostris: 7 26.

Zizania aquatica: 14 70.

Zylorhiza spp.: 5 6.

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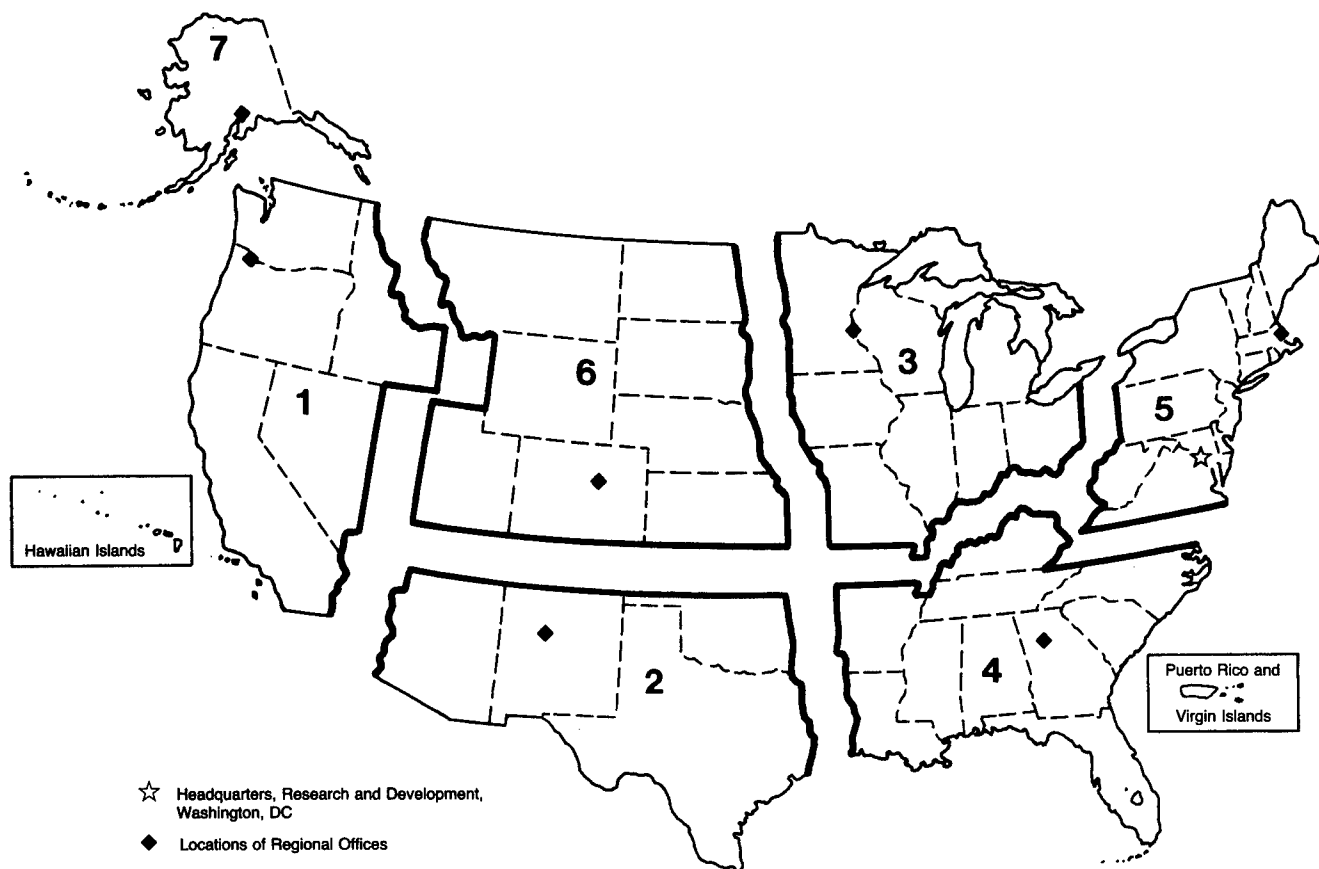
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